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### Test your HT

- Make sure your radio is programmed to these frequencies:
  - Primary            147.525   Simplex, No Tone
  - Backup 1           446.500   Simplex, No Tone
  - Backup 2           146.490   Simplex, No Tone
- Set your radio to its lowest power setting.
- Call Net Control using your FCC Call Sign for a radio check on the Primary   only.
- **You need to use a head set or ear bud during class.**

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## Field Operations

## Type III Part B and Type II



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Last Updated 26-January-2024

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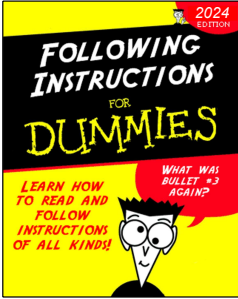
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### Housekeeping

- Introductions
- Pen/pencil, paper, course materials
- Cell phones
- Side conversations
- Questions
- Breaks **Water Only in this room**
- Restroom
- In case of emergency
- PARKING – move at first break



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Bring your ICS-214 and ICS-211 that you started in the Part A class.

You will need a student number for the exercises. Use your student number from the Part A class.

If you did not attend Part A, please review the slides and complete the ICS-214 and 211 forms from that class. You will be assigned a student number at the beginning of class.

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### Fictitious Examples Used Today

- W6XRL4: Herman Munster
  - Father in 1960's sitcom "The Munsters"
  - Was an aspiring amateur radio operator
  - Call sign: W6XRL4
- XNDEOC: City of Xanadu Emergency Operations Center



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Forms and Tactical Call Signs for Exercises

- Take out your partially completed forms from Part A of this class and the other blank forms
  - ICS-211
  - ICS-214
- Remember your tactical call sign from Part A.
  - Your tactical call sign will be “Student ##”, where “##” is your number.

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Student Number

You will be assigned a student number for the class exercises if you did not get one in the Part A class last month.

Please complete the homework before coming to class.

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Learning Objectives (Reminder)



At the end of this two-part course, you should be able to:

- Describe the role of a field operator, including
  - Served agency needs, field assignment types, SCCo ARES/RACES credentialing system
- Explain and perform basic safety procedures
- Properly execute an assignment, including
  - Mobilization, selecting equipment, field operations, dealing with problems, demobilization
- Understand and use field operations checklists

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### Agenda

Type III, Part A (Reminder):

- Mastering Field Communications
- Supporting Our Served Agencies
- Field Comms Assignments
- Credentials
- Safety
- Simulated deployment
  - Mobilization
  - Setting Up a Field Station

Type III, Part B:

- Review of Part A
- Simulated Deployment (cont.)
  - Type III Field Equipment
  - Type II Field Equipment
  - On-Site Operations
  - Traffic Types
  - Message Passing Intro
  - Advanced Techniques (Type II)
  - Dealing with Problems
  - Demobilization
- Field Ops Checklist



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### Review: Field Operations Type III Part A

5m

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### Review: Communicating

- The definition of “communicate” is:
  - com-mu-ni-cate: to transmit information, thought, or feeling so that it is satisfactorily \_\_\_\_\_ and \_\_\_\_\_.
- Field Emergency Communications can involve threats to \_\_\_\_\_ and \_\_\_\_\_
- To be effective and efficient in such critical situations, we strive to \_\_\_\_\_ field communications.

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- Most of our served agencies are required by law to use \_\_\_\_\_ and \_\_\_\_\_
- It is important for us to understand these systems because
  - We can be more \_\_\_\_\_ and \_\_\_\_\_ at supporting our agencies if we understand how they work
  - Messages are usually addressed to/from \_\_\_\_\_ positions, which are grouped into these five sections: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_
  - Requests for resources move between agencies following the hierarchy defined in \_\_\_\_\_, which is: \_\_\_\_\_ > \_\_\_\_\_ > \_\_\_\_\_ > \_\_\_\_\_ > \_\_\_\_\_

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- **2-hour Carry Kit**
  - Keep it nearby
  - Use to make resource net damage reports
- **12-hour Go Kit**
  - Needed for any deployment
- **Extended Kit**
  - 12+ hours
- **Includes:**
  - X = Required
  - R = Recommended
  - O = Optional
- **Always wear a safety vest**
  - Unless the served agency has something else to wear

<https://www.scc-ares-races.org/operations.shtml#equip>

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### Radio – Portable: “Handie-Talkie” (HT)

- Radio
  - 5 Watts
  - Dual-band (2m, 70cm)
  - Recommended: dual-receive
  - Charged batteries for 12 hours (min. 3000 mAh)
    - Be careful with AA battery packs. On some HTs it will lower the power output to about 1 Watt max!
  - Recommended:
    - After market antenna can be a significant improvement
    - Chest pack or vest pocket to carry radio up high, not at waist
      - “Surveyor” and “Engineer” vests usually have two chest pockets
    - Rubber band(s) for headset plugs on some Yaesu HTs
  - Beware of cheap, non-Part 97 compliant junk radios



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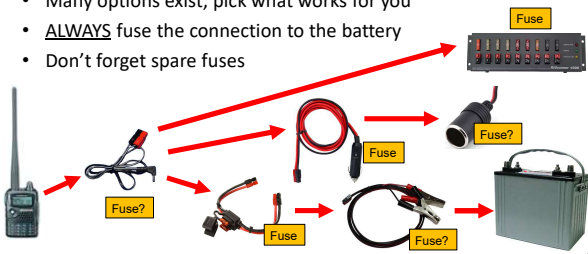
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### Radio Power Adapters

- Required: adapters to get power from three sources
  - 1) Anderson Powerpoles, 2) cigarette lighter socket, 3) car battery terminals
- Many options exist; pick what works for you
- **ALWAYS** fuse the connection to the battery
- Don’t forget spare fuses



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### HT Headset/Mic Options

- You need to hear and be heard in noisy environments
- Minimum required: earbud or headphones
  - Only improves what you hear, not your ability to be heard by others
- Recommended: headset
  - Alternatives: earbud/mic, speaker/mic/earbud



**Headset**

- **Usually best** for
  - Hearing
  - Being heard
- Consistent mic position
- Noise cancelling mics available from some manufacturers



**Earbud/mic**

- Simple, inconspicuous
- Poor mic location, picks up surrounding noise



**Speaker/mic**

- Hard to hear in noisy environment
  - May support attached earbud
- Mic location depends on how used
  - Not ideal if left clipped to clothing

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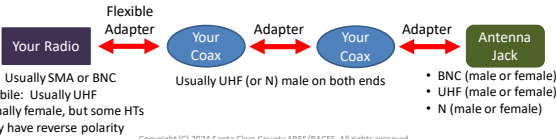
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Coax

More Info: Antenna Fundamentals Class

- Need to connect to existing installed antenna
  - Required
    - Minimum 25 feet of 50 ohm coax (50’ recommended)
    - Adapters to connect radio, coax to common antenna connector types
  - Recommended
    - 25-50 feet of low-loss (LMR-400 UF equiv.) to reach station
    - When you add an antenna and mast (Field Type II):
      - 25 feet of lightweight (LMR-240 UF or equiv.) to go up antenna mast
    - Sufficient adapters to connect radio, coax(es), antenna



HT: Usually SMA or BNC  
Mobile: Usually UHF  
Usually female, but some HTs may have reverse polarity

• BNC (male or female)  
• UHF (male or female)  
• N (male or female)

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Equipment for  
Field Communications, Type II

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Radio - Mobile



- Minimum 25 Watts (50 Watts recommended)
- Dual band (2m, 70cm)
- Dual-receive
- Cross-band repeat capable (CW-ID recommended)
- Data connector for packet is recommended
- Power adapters (with fuses) for: Anderson Powerpoles, cigarette lighter socket, vehicle battery



<https://www.sco-ares-races.org/operations/vhf-uhf-mobile-voice-radio-considerations.html>

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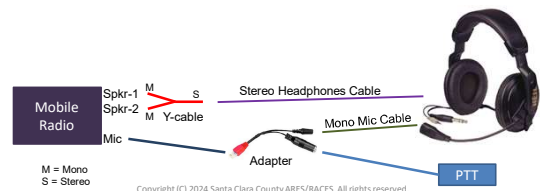
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Headset

- Stereo headset is best for dual-receive
- Y-cable needed for most dual speaker-jack mobile radios
- Radio-specific adapter cable needed for external PTT, headset
- Foot switch or hand switch for PTT



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Push-to-Talk (PTT) Options for Headsets

- Headset needs hand or foot-switch for PTT
- Hand switch (usually best for outdoors)
  - Doesn't sit on the ground - good in dirt or rain, vehicle
  - One hand occupied
    - But can now be repositioned; can hold down papers
  - Hard to type and use a computer
- Foot switch (usually best for indoors)
  - Frees both hands for typing, computer logging
  - Beware of hinged, gas-pedal style
    - Ankle fatigue; chasing it around under the desk
  - Round, heavy is preferred by many
    - Stays put, allows different foot positioning, prevents fatigue
    - Local contesting favorite: Linemaster Gem V2 (shown here)
  - Not ideal outdoors (in dirt or rain)



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Headset + Headphones and/or Speakers

- A passive splitter works and is reliable



- A headphone amp is nice, but requires power



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### Antenna and Mast

More Info: [Antenna Fundamentals Class](#)

- Mast
  - Telescoping mast is light, compact
  - Minimum: Base of antenna > 10 ft
  - Recommended: 32' puts your antenna above all single story and most two-story buildings
- Antenna
  - Roll-up J-pole, dual-band (2m, 70cm)
- Tripod
  - "Speaker stand" tripods are excellent
  - Use 15+ lb sand bag on each leg
  - Be sure collapsed length fits in your vehicle
- Also helpful
  - Heavy-duty Velcro straps to secure mast to tripod or pop-up tent legs

<https://www.scc-ares-races.org/operations/vhf-uhf-antenna-considerations.html>

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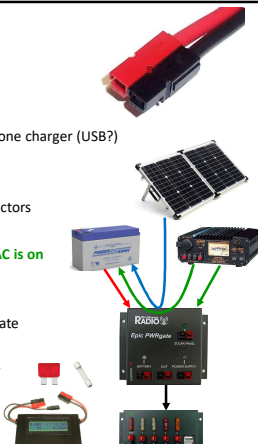
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### Power Distribution

- Power requirements
  - Radio(s), fan, lighting, HT charger, cell phone charger (USB?)
  - Scribe's equipment, others
- DC Power Supply
  - Consider one with multiple output connectors
- Battery charger/battery backup switch
  - Powers radio and charges battery while **AC is on**
  - Switches to battery power if **AC fails**
  - Optional **solar** for battery charging
  - Shown: West Mountain Radio Epic PWRgate
- Fused distribution
  - Shown: West Mountain Radio RigRunner
  - Don't forget the spare fuses!
- An in-line V/A/W meter can be useful

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### Batteries for Field Operations

- SCCo Go Kit recommended battery size
  - AGM: 20 Ah minimum; 26 Ah recommended
  - LFP (LiFePO4): 20 Ah; No firm requirement yet
- Expected [Busy] Duty Cycle (per hour)
  - 5% idle: 3 minutes
    - Nothing received
  - 20% transmit: 12 minutes
    - Send 2 formal messages
    - Receive two formal messages
    - Send/receive informal traffic
  - 75% receive: 45 minutes
    - Listening to other traffic
- This is for voice field operations. Net Control and Packet have different duty cycles.

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Field Operations Duty Cycle Testing

- Tested: 10 W and 50 W transmit power; AGM and LiFePO4 batteries
- Results: Use 10 W
  - 50 W with 26 Ah AGM battery will not last a full shift
  - 50 W with 20 Ah LFP battery will last 8+ hours

<https://www.sco-ares-races.org/operations.shtml#equip>

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Battery Runtime Rule of Thumb

- **Recommended size:**
  - AGM: Minimum 20 Ah minimum; 26 Ah Recommended (SCCo Go Kit)
  - LFP (LiFePO4): 20 Ah Recommended (no required min. value defined yet)
- **Battery size rules of thumb:**
  - AGM: runtime (hr) = 50% of Rated Capacity (Ah) / weighted avg. current (A)
  - LFP: runtime (hr) = Rated Capacity (Ah) / weighted avg. current (A)
- Example: Field Operator field operator using 50 W transmit power
  - Duty cycle = 5% idle @ 0.5A; 20% transmit @ 9.2A; 75% receive @ 0.6A
  - Weighted avg. current = (0.05)(0.5 A) + (0.20)(9.2 A) + (0.75)(0.6 A) = 2.3 A
- Example: 26 Ah AGM Battery
  - Runtime = (0.50)(26 AH) / (2.3A) = 5.7 hours (actual test result = 5.8 hours)
- Example: 20 Ah LFP Battery
  - Runtime = (20 Ah) / (2.3A) = 8.7 hours (actual test result = 8.9 hours)

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Operating On-Site, in the Field

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### Example Deployment - Operations

- Net Check-in
- Logging
- Voice Technique
- Examples

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### Check-In



- As soon as your station is set up ...
- Check into the assigned net
  - Use phonetics for your call sign since this is the first time net control is hearing it
- If you were assigned a tactical call sign
  - You are checking in as a function or location, not yourself
  - Say: Net Control, <tactical call sign> checking in, <FCC call sign>
  - Example: Net Control, Shelter 1 checking in, W6XRL4
- If you were not assigned a tactical call sign
  - You are checking in as yourself
  - Say: “Net Control, <FCC call sign> checking in”
  - Example: “Net Control, W6XRL4 checking in”
- Update your ICS-214

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### Exercise: ICS-214 Update

- Exercise:
  - Assume the time is now 09:00
  - You have set up your station
  - You have checked out of the staging net
  - You have checked into the student net
  - Update your ICS-214

The date on your forms are from last months class, use that date

MM/DD/YYYY

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ACTIVITY LOG	
Time (24:00)	Major Activities & Events / Occasional Messages (indicate From / To / Mag# / Mag Text)
08:00	Assignment: attend Field Ops III/II Training Class. Sheriff's Office
08:05	Depart home, initial odometer 123
08:25	Arrive staging, final odometer 134
08:50	Assignment: participate as student, tactical call "student <your number>"
09:00	Station set up complete; checked out of staging, into student net; see ICS-309

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Exercise: ICS-309 Communications Log

COMM Log ICS 309-SCCo ARES/RACES	1. Incident Name and Activation Number <i>Field Ops III/II Training Class</i> <i>TC-24-02T</i>	2. Operational Period (Date/Time) <i>MM/DD/YYYY</i> <i>MM/DD/YYYY</i> From: <i>09:00</i> To: <i>12:00</i>	
	3. Radio Net Name (for NCOs) or Position/Tactical Call <i>Student &lt;your number&gt;</i>		4. Radio Operator (Name, Call Sign) <i>&lt;your name&gt;, &lt;your call sign&gt;</i>
5. COMMUNICATIONS LOG			
Time (24:00)	FROM Call Sign/ID   Mag #		TO Call Sign/ID   Mag #
09:00	<div></div>		NC

Suggestion:  
If you leave the field representing you or your position blank,  
it can make the log a little easier to read as it fills up

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Communications Technique



- Verbal communication must be effective, clear and concise
  - Plain English; No 10-codes, Q-codes, etc.
  - Proper (ITU) phonetics, prowords, numbers
  - Follows standard procedures
- Radio technique is effective
  - Proper power levels: repeaters vs. simplex
  - Pause for repeaters, especially when linked
- Written communication is effective, clear, concise, legible
  - Correct forms used for each function; properly completed
- Call signs and tactical calls are used properly

Reference: SCCo Performance Standards, page 7

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Methods and Procedures - General

- Operator understands and is able to describe the purpose and appropriate usage of the main nets
  - Resource, Message, Command, Hospital, City, Tactical, Packet, EOC, ...
- Makes proper use of the Resource Net
- Passes messages appropriately using correct ProWords
- Maintains contact with Net Control
- Keeps logs and records correctly
- Follows served agency protocols and procedures
- Provides complete and accurate relief briefings
- Attends debriefing, if one is available

Reference: SCCo Performance Standards, pp 10-13

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### Responding to Health & Welfare Checks

- Health and Welfare Checks
  - Key Points
    - Field operators responded with tactical call (good)
    - Identified any problems or needs (none in this case)
    - Ended with FCC call sign, as requested (excellent)
  - Note:
    - Checkpoint 1A has Yaesu Wires turned on. Notice the beep and the suppression of audio at the beginning of his transmission. The words “Checkpoint 1 Alpha” are completely missed!
    - If you have a Yaesu radio, you MUST disable and avoid activating that terrible “feature”!

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### Keep Net Control Informed At All Times

- Example: assignment change
  - Staging has reassigned this operator to a new position
  - He does an excellent job of telling net control:
    - Old assignment (old tactical call sign)
    - New assignment (new tactical call sign)
    - The fact that he is on his way there
  - Ends with FCC call sign
- Example: restroom break
  - Never leave the net without telling net control
  - Operator arranged for a stand-in, reducing the load on net control
  - Ends with FCC call sign

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### Making Reports

- Example: crowd count reports
  - Checkpoints report number of rows of people on each side of the block they are monitoring, first left, then right
  - Technically, they should use the proword "figure(s)" before saying the number. But the requested information is a number. So, the answer is understood to be a number anyway.
- Key points for both example recordings:
  - They are called by their tactical call sign
  - They answer as their tactical call sign
  - They give the required information, nothing more, nothing less
  - They end with their FCC call sign to satisfy the FCC and indicate that the transmission is completed

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<b>COMM Log</b> ICS 309-SCCo ARES/RACES	1. Incident Name and Activation Number <i>Field Ops III/II Training Class</i> <i>TC-24-02T</i>	2. Operational Period (Date/Time) <i>MM/DD/YYYY MM/DD/YYYY</i> From: <i>09:00</i> To: <i>12:00</i>
3. Radio Net Name (for NCOs) or Position/Tactical Call <i>Student &lt;your number&gt;</i>		4. Radio Operator (Name, Call Sign) <i>&lt;your name&gt;, &lt;your call sign&gt;</i>


  

COMMUNICATIONS LOG					
Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
09:00			<i>NC</i>		<i>Check-in</i>
09:30	<i>NC</i>				<i>H&amp;W</i>
09:45			<i>XNDEOC</i>		<i>Requested Water</i>
09:50	<i>XNDEOC</i>				<i>Water on the way</i>
10:00	<i>NC</i>				<i>H&amp;W</i>

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### Traffic Types

Typical for field operators

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### Traffic Types in the Field

- Operator-to-Operator Traffic
  - Ex: Check-in/out, health & welfare, damage reports, status reports, etc.
- 3<sup>rd</sup> Party Traffic (messages provided by others that we send)
  - Spoken
    - Message that are told to us; usually brief
    - Ex: “Ask Steve to call Jenny at 867-5309”
    - Common for shadows
  - Written
    - Messages that are written down and handed to us
    - Ex: ICS-213 and other forms, message written on plain paper

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### 3rd Party Spoken Messages



- For simple spoken messages, no need for a message form
  - Example: Most messages between shadows are simple, spoken messages
    - “Ask Steven to call Jenny at 867-5309”
- Use your judgement
  - IF message is longer or more complicated
    - Such as: a complicated message that needs to be delivered exactly
  - OR if it needs routing information for delivery outside the radio room
    - Such as: a message to be delivered to an ICS position in an EOC
  - OR if the message should be tracked
    - Such as: the 3rd parties may need to refer to it again
  - THEN write it down on the appropriate form; handle as a written message
- Log all 3rd party spoken messages on an ICS-309 Comm Log
  - (Shadows can log on their ICS-214)

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3rd Party Written Messages



- 3rd party written messages always use an appropriate form
  - General messages on ICS-213; resource requests on EOC-213RR; etc.
- If the message is not on the appropriate form:
  - Best: Ask the author to use the correct form
    - If they don't have one, provide it to them
  - Else: Transcribe the message to the form, asking the author to clarify and fill in missing information as you go
    - Clarify spelling, other details
  - Last Resort: Staple to an appropriate form only if necessary
    - Papers can become detached, separated
    - Staples, paper clips, and odd paper sizes can cause problems when scanning/copying
- Log all 3rd party written messages on an ICS-309 Comm Log
- See: <https://www.scc-ares-races.org> > Operations > Forms

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Jurisdiction Status

- 3 page form
- Who:
  - From: City or Agency
  - To: County EOC
- When:
  - Responding to info requests
  - Submitting updated info
- Instructions
  - Last page

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Shelter Status

- 2 page form
- Who:
  - From: Shelter
  - To: Managing jurisdiction
    - City or County EOC
    - Red Cross
- When:
  - Responding to info requests
  - Submitting updated info
- Instructions
  - Last page

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Allied Health Status

- Who
  - From: Allied Health Facility
    - Skilled nursing, assisted living, dialysis, out-patient surgical, clinic, ...
  - To: Public Health or EMS
- When:
  - Responding to request for bed counts
  - Submitting updated general info
- Instructions
  - Last page

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EOC-213RR Resource Request

- Used to request non-mutual aid resources from the county
  - Not for Law, Fire, EMS, or RACES mutual aid
- Usually sent from city EOC to county EOC (Op Area)
- Other uses
  - County-managed shelter or unincorporated area command post
  - Some cities for internal requests
- Instructions
  - Last page(s)

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Other Forms

- Hospital Forms
  - HAvBed Report, Medical Facility Status, Medical Resource Request
- City/Agency specific
  - CERT Damage Assessment
  - Other: Message, ... Status, Resource Request, 9-1-1 forms
- Vendor specific
  - Food orders, Equipment orders
- In general, use the most appropriate form for the specific message. Otherwise, use an ICS-213 Message form.

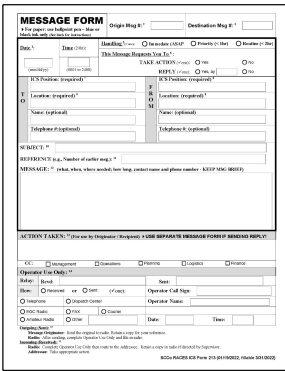
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ICS-213 Message

- Any general message that isn't better suited for a more specific form
- If someone hands you a message on a scrap of paper, politely ask that they fill in an ICS-213
  - If they refuse, do it for them!
  - Ask them to check it for accuracy.
- Instructions
  - On last page

The image shows the ICS-213 MESSAGE FORM. It is a standardized form for sending and receiving messages. The form includes fields for Origin Station, Destination Station, Date, Time, and a message body. It also has checkboxes for various options like 'Priority', 'Urgent', and 'Relay'. The form is designed to be filled out by a radio operator.

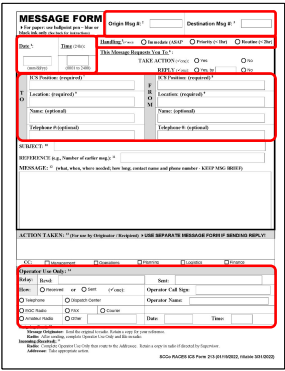
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What is Radio Routing Info?

- The extra information that a radio operator needs to send, deliver, and track a message
  - Message Numbers
  - Date, Time, Handling Order
  - To/From
  - Radio Operator Info

The image shows the ICS-213 MESSAGE FORM with several fields highlighted in red boxes. These boxes are around the 'Origin Station' and 'Destination Station' fields, the 'Date' and 'Time' fields, and the 'Radio Operator' field. This highlights the 'Radio Routing Info' mentioned in the text.

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Message Number Fields on Forms

Example: Shelter A1 sends to Xanadu EOC

- Origin Station:** assigns origin msg. number; sends message  

Radio Operator Only:	Origin Msg #:	SA1-1001	Destination Msg #:
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- Destination Station:** receives message; adds destination msg. number; provides that msg. number to Origin Station  

Radio Operator Only:	Origin Msg #:	SA1-1001	Destination Msg #:	XND-4321
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- Origin Station:** updates message form with destination msg. #  

Radio Operator Only:	Origin Msg #:	SA1-1001	Destination Msg #:	XND-4321
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- But some forms have no message number fields, so ...

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Message Prioritization

- Prioritize messages by:
  - Handling Order
  - Date
  - Time
  - Set by message author (3<sup>rd</sup> party)

<sup>2</sup> Date:	<b>2</b>	<sup>3</sup> Time (24hr):	<b>3</b>	<sup>4</sup> Handling:	<b>1</b>	<input type="radio"/> Immediate (ASAP)	<input type="radio"/> Priority (<1 hr)	<input type="radio"/> Routine (<2 hr)
--------------------	----------	---------------------------	----------	------------------------	----------	--	--	---------------------------------------

- But some forms have no prioritization fields, so ...

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3<sup>rd</sup> Party Message Addressing

- Messages are addressed TO and FROM ICS Positions and Locations
  - These are required fields on all messages
- Individual names and contact info are optional fields and are seldom used

<b>T</b>	<b>O</b>	<sup>6</sup> ICS Position:	<sup>8</sup> ICS Position:
		<sup>7</sup> Location:	<sup>9</sup> Location:
		<sup>10</sup> Name:	<sup>11</sup> Name:
		<sup>12</sup> Contact Info:	<sup>13</sup> Contact Info:

- But some forms have no To/From fields, so ...

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Radio Routing Slip

- Like a fax cover sheet or departmental routing slip
- A place to put the radio routing info if the form doesn't have those fields
  - Message Numbers
  - Date, Time, Handling Order
  - To/From
  - Reference info about the message
    - Form Type
    - Topic/Subject of message
  - Radio Operator Info

The screenshot shows a 'Radio Routing Slip' form. At the top, it says 'Santa Clara County ARES - Radio Routing Slip'. Below this, there are several fields: 'Date', 'Time', 'Handling', 'Priority', 'From', 'To', 'Subject', 'Reference', 'Form Type', 'Topic/Subject', 'Radio Operator', and 'Radio Operator Info'. Red boxes highlight the 'Date', 'Time', 'Handling', 'Priority', 'From', and 'To' fields. Below these fields, there is a section for 'Radio Operator Info' with fields for 'Name', 'Title', 'Phone', and 'Email'. At the bottom, there is a section for 'Radio Operator Info' with fields for 'Name', 'Title', 'Phone', and 'Email'.

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State Data USA Certification Status Last Update: 11/20/2017 1:29 pm EST		[Print] [Close]
Registration Key:		Registration Key:
<b>My Certificates and Licenses by State</b>		
All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV
Select State:	Choose Certificate:	Choose License:
[Select State] [Choose Certificate] [Choose License]		
<b>CA State</b>		
All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV
<b>CA State</b>		
All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV
<b>CA State</b>		
All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV
<b>CA State</b>		
All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV
<b>CA State</b>		
All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV
<b>CA State</b>		
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<b>CA State</b>		
All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV
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<b>CA State</b>		
All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN TX VA WI WV	All CA IL IN MD MI MN MO NE NY OH OK OR PA RI SC TN 	

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<b>MESSAGE FORM</b> * For paper: use ballpoint pen - blue or black ink only (see back for instructions)		<b>Origin Msg #:</b> <input type="text"/>	<b>XND-1245</b>	<b>Destination Msg #:</b> <input type="text"/>
<b>Date:</b> <input type="text"/>	<b>Time (24hr):</b> <input type="text"/>	<b>Handling:</b> <input type="radio"/> <i>earnc</i> <input type="radio"/> Immediate (ASAP) <input checked="" type="radio"/> Priority (<1hr) <input type="radio"/> Routine (<2hr)		
<b>This Message Requests You To:</b> <input type="text"/>		<b>TAKE ACTION:</b> <input type="radio"/> <i>earnc</i> ; <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Yes, by <input type="text"/> <input type="radio"/> Yes <input type="radio"/> No		
<b>02/06/2024</b> (mm/dd/yy)	<b>10:32</b> (0000 to 2400)	<b>F R O M</b>	<b>REPLY:</b> <input type="radio"/> <i>earnc</i> <input type="radio"/> Yes, by <input type="text"/> <input type="radio"/> No <input type="radio"/> No	
<b>ICS Position: (required) <sup>1</sup></b> CERT Team Bravo Lead	<b>ICS Position: (required) <sup>1</sup></b> CERT Coordinator			
<b>Location: (required) <sup>2</sup></b> Columbia Park Staging Area	<b>Location: (required) <sup>2</sup></b> Xanadu EOC			
<b>Name: (optional)</b>	<b>Name: (optional)</b>			
<b>Telephone #: (optional)</b>	<b>Telephone #: (optional)</b>			
<b>SUBJECT:</b> <sup>15</sup> <input type="text"/> Task Assignment #25				
<b>REFERENCE</b> (e.g., Number of earlier msg): <sup>14</sup> <input type="text"/>				
<b>MESSAGE:</b> <sup>12</sup> (what, when, where needed; how long; contact name and phone number - KEEP MSG BRIEF)				
Send a team to do damage assessment on the 200 block of San Anselmo Avenue. Reply with ETA.				
This is drill traffic.				

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- **Message Passing Class**
  - Message Passing is what we do; it's a critical skill
  - A separate class focuses solely on message passing technique
  - Be sure you attend at least every two years!
    - The best operators attend every year – it's that important!
  - **Next Class:** Saturday July 6<sup>th</sup> (pre-class homework)
  - Review *Message Handling Procedures* Document
    - <https://www.scc-ares-races.org/operations.shtml#standards>
- **Practice**
  - <https://www.scc-ares-races.org> > Training > Practice Sessions
  - **On Air Practice from Home**
    - **Quarterly Training Net**  
3rd Tuesday of first month of quarter @ 20:30, after SVECS net  
On Resource Net Repeaters (AA6BT, N6NAC, W6ASH)  
Sign-up on web site
- **Other Drills and Exercises**

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<b>COMB LAG</b> (in the week following)		1. Location: Name and Address: School		2. Secondary: Name/Address	
ADDRESS		Region		City	
3. Grade: MA Number/Title: 4. Position: Principal/Cad		5. Date: Operation: Above, On, Below			
<b>6</b>		<b>7</b>			
Name		City		Remarks	
Class	Class	Class	Class		
12th	12th	12th	12th		
11th	11th	11th	11th		
10th	10th	10th	10th		
9th	9th	9th	9th		
8th	8th	8th	8th		
7th	7th	7th	7th		
6th	6th	6th	6th		
5th	5th	5th	5th		
4th	4th	4th	4th		
3rd	3rd	3rd	3rd		
2nd	2nd	2nd	2nd		
1st	1st	1st	1st		
10th	10th	10th	10th		
9th	9th	9th	9th		
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4th	4th	4th	4th		
3rd	3rd	3rd	3rd		
2nd	2nd				

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- At 10:20, you send an EOC-213RR Resource Request form asking for more donuts.
- Your message number is S##-101. Xanadu's message number is XND-206.
- Log it on your ICS-309.

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[illegible]

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- At 10:30, Net Control performs a health and welfare check
- At 10:45, Xanadu sends you an ICS-213 Message form with a subject of "Donut Status". Their message number is XND-207. Your message number is SXX-102.
- Log these messages.

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[illegible]

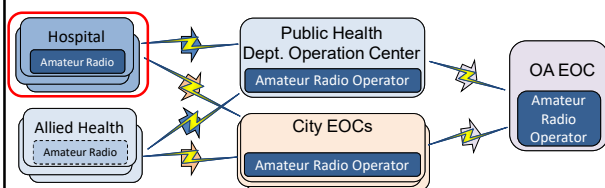
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## For Field Operator Type II Credential

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- Some field assignments require simultaneous operation on two nets
- Example:
  - Hospital Net: Hospitals to PHDOC; medical issues
  - City Net: Municipal issues, such as fire, law, utilities, public works



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### Operating on Two Nets Simultaneously

- Establish your primary net
  - All other things being equal, which net will you answer first?
- Use at least a dual-receive mobile radio, stereo headphones
  - If possible, use a separate radio for the secondary net so you can hear both nets while you are transmitting
  - An HT with an earbud under your headphones usually works well
- Use a separate ICS-309 Message Log for each net
  - Include net name in field 3: Radio Net Name or Position/Tactical Call
  - Examples: "Hospital Net / Velly Medical; "Santa Clara Tac 1 / Kaiser SC"
- Inform both net controls
  - "Net control, be advised that I am operating two nets simultaneously. This is my {primary|secondary} net. I may not hear you or be able to answer right away if I'm handling higher priority traffic on the other net."
- Work at your own pace; you're still just one person
- Use previously covered techniques to avoid stress, fatigue

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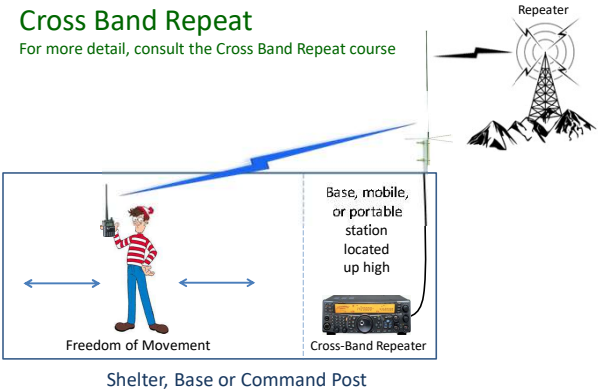
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### Cross Band Repeat

For more detail, consult the Cross Band Repeat course



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### Cross Band Repeat

For more detail, consult the Cross Band Repeat course

- Advantages
  - Freedom of movement within the shelter, base, or command post for message pick-up and delivery, or locating people with the information you need
  - May be the only practical option you have if you're the only operator
- Challenges
  - HT audio is usually not very good, for either TX or RX
    - Use a headset with boom mic, instead of earbud with inline mic
  - Monitor your duty cycle
    - HT batteries will run down
      - Use extra-low power, have extra batteries charging at all times
  - Cross band repeater radio will overheat
    - Use low power on local/user side
    - Use a good antenna and lowest possible power on the remote/uplink side
    - Consider using a base station radio capable of higher duty cycle
  - Remember to use tone squelch to prevent repeating of noise

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### Higher Traffic; Higher Speed



- A Type II operator is expected to have higher traffic levels
- Speed comes with practice and following procedures
- Net procedures
  - Proper net procedures speed up overall net operations
    - Check-in/out, constant monitoring, pauses, reporting formats, phonetics
- Message passing procedures
  - Most net traffic is message traffic
  - Proper message passing procedures speeds up most nets
    - Message prioritization, prowords
  - Those skilled at message passing can transfer a message two to four times as fast as others; as much as 10 more messages per hour!
- Take every opportunity to practice
  - On air message passing practice, weekly nets, drills and exercises

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### Dealing with Problems in the Field

Challenges and What to Do About Them

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### Loss of Repeater



- How to recognize
  - No courtesy tone (and there used to be one)
  - No squelch tail
  - Not receiving responses
  - No health & welfare checks; no traffic at all
  - You might hear people on the input but not the output
    - Use "Reverse" button to check

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Loss of Repeater – What to Do



- Check your equipment
  - Volume turned up? On the right frequency?
  - Equipment is operational; adequate battery power
- Switch to simplex on repeater output
  - Switch to high power; include tone, in case others are using tone squelch
  - Program backup frequencies from the ICS-205 into your radio memory and be ready to switch to them in case of repeater failure or malicious interference
- Alternate paths of communications
  - Check your Comm. Plan (ICS 205)
  - Check your briefing notes/documents
  - Have a list of frequencies for the area you are in.
- Try tactical simplex frequency for served agency
- Contact other fielded operators on tactical simplex

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Power & Phone Outages



- Field station
  - Check to be sure it's not your equipment
  - Have your flashlights and or battery-operated lanterns nearby, at all times.
  - Configure station to automatically switch to back-up power
    - Batteries – multiple sources and types
    - Back-up generator
    - Vehicle
  - Safety, safety, safety (particularly at night)
  - May affect your ability to call 911
    - Check Comm. Plan (ICS 205) for alternative method of reaching emergency services
- Traveling
  - ATM's, gas stations, banks, stores – all may be closed
  - Signage may be dark and hard to read
    - Keep flashlight/headlamp handy

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High Temperature



- Situation
  - You are operating in the middle of the summer in an area with very high temperatures which could affect equipment performance and your health.
- Action
  - Use a pop-up or other means to create shade for yourself and radio
  - Use lowest radio power possible
  - Switch radios
  - Position radio for sufficient air flow
    - Sufficient space around cooling fins
    - "Radio in a box" is not the best approach in a hot environment unless it includes forced air (fan) ventilation
    - Consider sealed "blue" ice packs (but watch for condensation!)
  - Use a 12v DC fan (consider CFM > 50 and dB < 25)

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Rain, Wind



- Situation
  - You have to operate in rain, wind or both
- Action
  - Protect your paperwork and equipment from wind, rain
    - Plastic bags for radio, clipboard
    - Clipboard(s) and weights for paperwork
  - Use a pop-up or other means to create shelter
    - Add sides to protect from blowing rain
    - Add weights to protect against wind, especially if pop-up has sides
      - Typically 40+ lbs per leg are needed
  - Keep electrical connections off wet ground

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Difficult People



- Situation
  - People may be scared, tired, stressed, or all of the above
  - This applies to other staff as well as the general public
- Action
  - Stay calm; project calmness, confidence
  - Focus on the problem, not the personality
  - Most people will calm down when they see their concern is being addressed
  - If you are unable to address the problem or if the situation persists, seek help from your supervisor

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Safety

- Pay attention to your health and those around you
  - Hydration
  - Cold and heat
  - Stress
  - Fatigue
- Do not go places that you feel are not safe
  - Moving water
  - Mud/Land slides
  - Active fires

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### RF Safety (Review)

- Perform an RF Exposure Calculation  
<http://www.arrl.org/rf-exposure-calculator>
- More details in the Antenna Fundamentals class and in Field Operations Type III A class

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### Key To Success ...

# Semper Gumby

*("Always Flexible")*



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### Demobilization

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Demobilization

- Shift Change
- Closing out your assignment
- Paperwork
- Returning home

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Shift Change

- If someone will be relieving you, they should arrive early to set up their station and receive a relief briefing from you
  - See SCCo Performance Standards for relief briefing contents
- What are some key elements of the relief briefing?
  - 
  - 
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  - 
  - 
  -

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Closing Out Your Assignment

- Check out of the net you’ve been using
- Check into the staging net

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Exercise:

- Assume it is 12:00 and your assignment is completed
- You checked out of your assigned net
  - In this case, the Student Net
  - Typically, a tactical net
- You checked into the Staging Net
  - Or whatever net is appropriate (local tactical, resource, ...)
  - In this case, it's the Staging Net
- Update your ICS-309, ICS-214

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Exercise: ICS-309 Logging

5. COMMUNICATIONS LOG				
Time (24:00)	FROM		TO	
	Call Sign/ID	Mag #	Call Sign/ID	Mag #
09:00			NC	
09:30	NC			
09:45			XNDEOC	
09:50	XNDEOC			
10:00	NC			
10:10		S##-100	XNDEOC	XND-205
10:20		S##-101	XNDEOC	XND-206
10:30	NC			
10:45	XNDEOC	XND-207		S##-102
11:00	***	***	***	***
12:00			NC	
6. Prepared By (Name, Call Sign)				
<your name>, <your call sign>				
6A. Signature				
Your Signature				
7. Date & Time Prepared				
MM/DD/YYYY 12:00				
8. Page 1 of 1				

Required

Next operator (if any) begins a new 309 form

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Example: Updated ICS-214

6. ACTIVITY LOG	
Time (24:00)	Major Activities & Events / Occasional Messages (Indicate From / To / Mag# / Mag Text)
08:00	Assignment: attend Field Ops III/II Training Class. Sheriff's Office
08:05	Depart home, initial odometer 123
08:25	Arrive staging, final odometer 134
08:50	Assignment: participate as student, tactical call "student <your number>"
09:00	Station set up complete; checked into student net; see ICS-309
...	... other activities
12:00	Shift complete; checked out of student net; check into staging net

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Return or Hand Off Forms

- If a new operator is relieving you
  - Take only your ICS-214 Unit Activity log with you
  - Leave everything else at the station for the next operator
    - ICS-309 Communications Log, various message forms, notes, ...
    - The new operator may need to refer to previous communications
- If you are the last operator at the site
  - Bring all forms and notes with you to staging

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Return to Staging

- Pack up your station if appropriate
- Complete any procedures requested by local staff
  - Debriefing, review forms, time accounting, etc.
- Return to staging
- Close out your ICS-214
- Turn in all paperwork
- Sign-out on the ICS-211A
- Check out of Staging Net

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Exercise: Finish Up at Staging

- The time is now 12:20
- Close out your ICS-214
- Sign-out on the ICS-211A
- Check out of staging net

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ACTIVITY LOG			
Major Activities & Events / Occasional Messages (Indicate From / To / Msg# / Msg Text)			
Time (24:00)			
08:00	Assignment: attend Field Ops III/IV Training Class. <class location>		
08:05	Depart home, initial odometer 123		
08:25	Arrive staging, final odometer 134		
08:50	Assignment: participate as student, tactical call "student <your number>"		
09:00	Station set up complete; checked into student net; see ICS-309		
...	... other activities		
12:00	Shift complete; checked out of student net; check into staging net		
12:20	Sign-out of staging; heading home		

7. Prepared By (Name, Call Sign, ICS Position) <your name>, <your call sign>	7A. Signature  Your Signature	8. Date & Time Prepared MM/DD/YYYY 12:20	9. Page 1 of 1
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Congratulations!

- You have completed a simulated full activation
  - Mobilization
  - Operations
  - Demobilization
- You learned about equipment
- You learned about handling problems
- Can you remember it all?
- Can you repeat it over and over without missing anything?

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Checklists

For Field Operations

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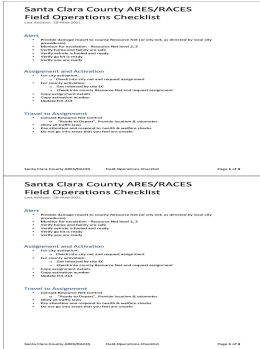
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Checklists

- Each role has a checklist
  - Field
  - Net Control
  - Packet
  - Shadow
- Doesn't replace proper training
- Operator expected to
  - Review checklist at each stage of deployment
  - Understand meaning of each step
  - Complete each step correctly
- The Performance Standards & Best Practices has a more extensive list.



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### Summary

You should now be able to:

- Describe the role of a field operator, including
  - Served agency needs, field assignment types, SCCo ARES/RACES credentialing system
- Explain and perform basic safety procedures
- Properly execute an assignment, including
  - Selecting equipment, mobilization, field operations, dealing with problems, demobilization
- Understand and use a field operations checklist

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### Final Assignment

Please complete the Class Evaluation within one week.

To get course credit you need to:

- a) Attend at least 90% of the class
- b) Participate in class
- b) Complete the class evaluation

If you do these, you will get credit for the course.

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### Online Class Evaluation

Log into <https://www.scc-ares-races.org/activities/events.php>  
Click "Submit Class Evaluation" in Events

Home

Log Out

Activities Home

SCC ARES/RACES Home

Comments/Bugs

Events

List Events By Date

List Events I Joined

Create a New Event

Modify an Event

Delete an Event

List/Print an Event Roster

Log Event Participation

Submit Class Evaluation

My Profile

Calendar of Events

Show: Current events Past events Event Descriptions

Field Operations Type III, Part B and Type II

Date:	Start:	Type:	Credential Credit?	Location:
06/05/21	9:00 AM	County Training	Yes	55 W Younger Ave, San Jose

Prerequisites, Course Description, and Course Materials: See the Field Communicator Type III Part B and Type II page for co...

Introduction to Emergency Communications - NIGHT CLASS (Zoom)

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Thank You!

If you have questions or feedback about this or other training activities, please join our **Training discussion group**:  
<https://scc-ares-races.group.io/g/training>  
This is a moderated group

Sign up for:

- Message Passing Class – July 6<sup>th</sup>
- Quarterly Training Net (3<sup>rd</sup> Tuesday of first month each quarter)

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